This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-31 (canceled).

- 32. (original) A process for partially removing a conductive front surface of a semiconductor wafer having a conductive front surface, the process comprising the steps of:
- (a) positioning the conductive front surface above a cathode assembly which comprises multiple cathode members;
- (b) providing an etch solution that wets said cathode members and said conductive front surface;
- (c) connecting said multiple cathode members to multiple power sources, wherein said multiple cathode members are substantially electrically isolated from one another;
 - (d) applying power to said cathode members from said multiple power sources;
- (e) positioning a mask plate between said cathode assembly and said conductive front surface of said wafer; and
- (f) flowing said etch solution through said mask plate so that said etch solution wets said conductive front surface.
- 33. (original) The process of Claim 32, further comprising (g) controlling the etching at selected parts of said conductive front surface.
- 34. (original) The process of Claim 33, wherein step (g) comprises directing, through said cathode members, said etch solution at said selected parts of the conductive front surface.
- 35. (original) The process of Claim 34, wherein step (g) further comprises directing said etch solution to a peripheral part of said conductive front surface separately from directing said etch solution to a center part of the conductive front surface.
- 36. (original) The process of Claim 35, wherein step (g) further comprises operatively interfacing selected cathode members with said selected parts of the conductive front surface.

- 37. (cancel) A process for electrochemically removing or depositing a layer of a semiconductor wafer, the process comprising the steps of:
- (a) flowing a solution through an electrode assembly which comprises a first electrode member and a second electrode member;
- (b) transporting said solution from said electrode assembly to a mask plate that interfaces said wafer;
 - (c) wetting selected parts of said wafer with said solution; and
 - (d) applying a current-to-said selected parts of said wafer.
- 38. (cancel) The process of Claim 37, wherein step (c) further comprises operatively interfacing said first and second electrode members with said selected parts of said wafer.
- 39. (cancel) The process of Claim 38, wherein step (c) further comprises directing said solution at said selected parts of said wafer.
- 40. (cancel) The process of Claim 39, wherein said selected parts comprise a peripheral part and a center part.
- 41. (currently amended) The process of Claim 40 A process for electrochemically removing or depositing a layer of a semiconductor wafer, the process comprising the steps of:
- (a) flowing a solution through an electrode assembly which comprises a first electrode member and a second electrode member;
- (b) transporting said solution from said electrode assembly to a mask plate that interfaces said wafer;
 - (c) wetting selected parts of said wafer with said solution; and
- (d) applying a current to said selected parts of said wafer, wherein step (c) further comprises etching said center part prior to etching said peripheral part.
- 42. (original) The process of Claim 41, wherein step (c) further comprises sequentially providing said current to said first and second electrode members.

- 43. (cancel) The process of Claim 37, further comprising (e) one of contacting, sweeping, and polishing said wafer with said mask plate.
- 44. (cancel) The process of Claim 37, wherein said electrode assembly comprises a cathode assembly.
- 45. (cancel) The process of Claim 37, wherein said electrode assembly comprises an anode assembly.
- 46. (previously amended) An electropolishing method for removing material from a conductive surface of a wafer using a cathode assembly comprising at least two cathodes and a surface, and an electropolishing solution that wets the cathode assembly and the conductive surface, the method comprising:

positioning the conductive surface near the surface of the cathode assembly; supplying power to each cathode wherein each cathode is adapted to receive different power; and

mechanically sweeping the surface of the wafer with a mask plate while maintaining a relative motion between the mask plate and the surface.

- 47. (original) The electropolishing method of Claim 46, further comprising the step of flowing the electropolishing solution through openings in the mask plate.
- 48. (original) The electropolishing method of Claim 46, further comprising the step of flowing the electropolishing solution through openings in each cathode.
- 49. (original) The electropolishing method of Claim 48, wherein each cathode is adapted to flow electropolishing solution at a different electropolishing solution flow rate.
- 50. (original) The electropolishing method of Claim 48, wherein each cathode is adapted to flow electropolishing solution having different acidity.

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- 51. (original) The electropolishing method of Claim 46, wherein the relative motion comprises rotating the wafer so that the rest of the conductive surface comes near the surface of the cathode assembly.
- 52. (previously amended) The electropolishing method of Claim 46, wherein each cathode is adapted to remove material from the conductive surface at different rates.
- 53. (currently amended) The electropolishing method of Claim 46, wherein the step of positioning positions a portion of the conductive surface is positioned near the surface of the cathode assembly.
- 54. (original) The electropolishing method of Claim 53, further comprising the step of flowing the electropolishing solution through openings in the mask plate.
- 55. (original) The electropolishing method of Claim 53, further comprising the step of flowing the electropolishing solution through openings in each cathode.
- 56. (original) The electropolishing method of Claim 55, wherein each cathode is adapted to flow electropolishing solution at a different electropolishing solution flow rate.
- 57. (original) The electropolishing method of Claim 55, wherein each cathode is adapted to flow electropolishing solution having different acidity.
- 58. (original) The electropolishing method of Claim 53, wherein the relative motion comprises rotating the wafer so that the rest of the conductive surface comes near the surface of the cathode assembly.
- 59. (previously amended) The electropolishing method of Claim 53, wherein each cathode is adapted to remove material from the conductive surface at a different rate.
- 60. (previously amended) The electropolishing method of Claim 46, wherein removal rate between a center portion and an edge portion of the conductive surface is substantially equal.

61. (previously amended) The electropolishing method of Claim 53, wherein removal rate between a center portion and an edge portion of the conductive surface is substantially equal.